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**1** Parallel execution of prolog programs: a survey

Gopal Gupta, Enrico Pontelli, Khayri A.M. Ali, Mats Carlsson, Manuel V. Her

July 2001 **Transactions on Programming Languages and Systems (**

**Publisher:** ACM

Full text available: Pdf (1.95 MB) Additional Information: full citation, abstract, re

**Bibliometrics**: Downloads (6 Weeks): 24, Downloads (12 Months): 226, Citatio

Since the early days of logic programming, researchers in the field reali exploitation of parallelism present in the execution of logic programs. Tl presence of nondeterminism, and their referential transparency, ...

**Keywords**: Automatic parallelization, constraint programming, logic pr prolog

**2** Streamflex: high-throughput stream programming in java

Jesper H. Spring, Jean Privat, Rachid Guerraoui, Jan Vitek

October 2007 **OOPSLA '07:** Proceedings of the 22nd annual ACM SIGPLAN programming systems and applications

**Publisher:** ACM

Full text available: Pdf (1.43 MB) Additional Information: full citation, abstract, re

**Bibliometrics**: Downloads (6 Weeks): 12, Downloads (12 Months): 131, Citatio

The stream programming paradigm aims to expose coarse-grained para must process continuous sequences of events. The appeal ofstream pro conceptual simplicity. A program is acollection of independent filters ...

**Keywords**: java virtual machine, memory management, ownership typ processing

Also published in:

October 2007 **SIGPLAN Notices** Volume 42 Issue 10

**3** Status report: the manticore project

Matthew Fluet, Nic Ford, Mike Rainey, John Reppy, Adam Shaw, Yingqi Xia

October 2007 **ML '07:** Proceedings of the 2007 workshop on Workshop on M

**Publisher:** ACM

Full text available: Pdf (362.01 KB) Additional Information: full citation, abstract, re

**Bibliometrics**: Downloads (6 Weeks): 4, Downloads (12 Months): 39, Citation (

The Manticore project is an effort to design and implement a new functi programming. Unlike many earlier parallel languages, Manticore is a he supports parallelism at multiple levels. Specifically, we ...

**Keywords**: ML, concurrent languages, data-parallel languages

**4** Continuous program optimization: A case study

Thomas Kistler, Michael Franz

July 2003 **Transactions on Programming Languages and Systems (**

**Publisher:** ACM

Full text available: Pdf (877.67 KB) Additional Information: full citation, abstract, re review

**Bibliometrics**: Downloads (6 Weeks): 35, Downloads (12 Months): 194, Citatio

Much of the software in everyday operation is not making optimal use o actually runs. Among the reasons for this discrepancy are hardware/sof modularization overheads introduced by software engineering considera

**Keywords**: Dynamic code generation, continuous program optimizatior

**5** Communications of the ACM: Volume 52 Issue 5

May 2009 Communications of the ACM

**Publisher:** ACM

Full text available: Digital Edition , Pdf (7.31 MB) Additional Information: full citation

**Bibliometrics**: Downloads (6 Weeks): 3429, Downloads (12 Months): 3429, Cit

**6** Vertical profiling: understanding the behavior of object-priented appli

Matthias Hauswirth, Peter F. Sweeney, Amer Diwan, Michael Hind

October 2004 **OOPSLA '04:** Proceedings of the 19th annual ACM SIGPLAN c programming, systems, languages, and applications

**Publisher:** ACM

Full text available: Pdf (1.16 MB) Additional Information: full citation, abstract, re

**Bibliometrics**: Downloads (6 Weeks): 10, Downloads (12 Months): 92, Citation

Object-oriented programming languages provide a rich set of features t software engineering benefits. The increased productivity provided by tl justifiable cost in a more sophisticated runtime system whose ...

**Keywords**: hardware performance monitors, perturbation, software pe profiling, whole-system analysis

Also published in:

October 2004 **SIGPLAN Notices** Volume 39 Issue 10

**7** Lfm2000 - Fifth NASA Langley Formal Methods Workshop

Holloway C. M.

June 2000 Lfm2000 - Fifth NASA Langley Formal Methods Workshop
**Publisher:** NASA Langley Technical Report Server
Full text available: Pdf (3.71 MB) Additional Information: full citation, abstract

**Bibliometrics**: Downloads (6 Weeks): 13, Downloads (12 Months): 88, Citation

This is the proceedings of Lfm2000: Fifth NASA Langley Formal Methods was held June 13-15, 2000, in Williamsburg, Virginia. See the web site http://shemesh.larc.nasa.gov/lfm2000/ for complete information about

**8** JIST: Just-In-Time scheduling translation for parallel processors
Giovanni Agosta, Stefano Crespi Reghizzi, Gerlando Falauto, Martino Sykor
July 2005 **Scientific Programming** , Volume 13 Issue 3
**Publisher:** IOS Press
Additional Information: full citation, abstract, references

**Bibliometrics**: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citatio

The application fields of bytecode virtual machines and VLIW processors embedded and mobile systems, where the two technologies offer differe portability, low power consumption and reduced hardware ...

**9** Statistically rigorous java performance evaluation
Andy Georges, Dries Buytaert, Lieven Eeckhout
October 2007 **OOPSLA '07:** Proceedings of the 22nd annual ACM SIGPLAN programming systems and applications
**Publisher:** ACM
Full text available: Pdf (1.63 MB) Additional Information: full citation, abstract, re

**Bibliometrics**: Downloads (6 Weeks): 18, Downloads (12 Months): 181, Citatio

Java performance is far from being trivial to benchmark because it is af as the Java application, its input, the virtual machine, the garbage colle addition, non-determinism at run-time causes ...

**Keywords:** benchmarking, data analysis, java, methodology, statistics

Also published in:
October 2007 **SIGPLAN Notices** Volume 42 Issue 10

**10** A framework for efficient regression tests on database applications
Florian Haftmann, Donald Kossmann, Eric Lo
January 2007 **The VLDB Journal — The International Journal on Very** Issue 1
**Publisher:** Springer-Verlag New York, Inc.
Full text available: Pdf (1.06 MB) Additional Information: full citation, abstract, re

**Bibliometrics**: Downloads (6 Weeks): 15, Downloads (12 Months): 91, Citation

Regression testing is an important software maintenance activity to ens after modification. However, most methods and tools developed for soft work well for database applications; these tools only ...

**Keywords:** Database applications, Regression tests

**11** Fun and Games: Multi-Language Development

Andrew M. Phelps, David M. Parks
February 2004 **Queue** , Volume 1 Issue 10
**Publisher:** ACM
Full text available: Html (36.56 KB), Pdf (5.69 MB) Additional Information: full citatio

**Bibliometrics**: Downloads (6 Weeks): 27, Downloads (12 Months): 237, Citatio

**12** Automated discovery of scoped memory regions for real-time Java

Morgan Deters, Ron K. Cytron
February 2003 **ISMM '02:** Proceedings of the 3rd international symposium
**Publisher:** ACM
Full text available: Pdf (227.49 KB) Additional Information: full citation, abstract, re

**Bibliometrics**: Downloads (6 Weeks): 3, Downloads (12 Months): 34, Citation

Advances in operating systems and languages have brought the ideal of execution time closer to developers who need such assurances for real- applications. Recently, extensions to the Java libraries and virtual ...

**Keywords:** garbage collection, memory management, real-time Java,

Also published in:
February 2003 **SIGPLAN Notices** Volume 38 Issue 2 supplement

**13** Process migration

Dejan S. Milojičić, Fred Douglis, Yves Paindaveine, Richard Wheeler, Songn
September 2000 **Computing Surveys (CSUR)** , Volume 32 Issue 3
**Publisher:** ACM
Full text available: Pdf (1.24 MB) Additional Information: full citation, abstract, re review

**Bibliometrics**: Downloads (6 Weeks): 110, Downloads (12 Months): 680, Citati

Process migration is the act of transferring a process between two mach distribution, fault resilience, eased system administration, and data acc goals and ongoing research efforts, migration has ...

**Keywords:** distributed operating systems, distributed systems, load dis

**14** Controlling garbage collection and heap growth to reduce the execut applications

Tim Brecht, Eshrat Arjomandi, Chang Li, Hang Pham
September 2006 **Transactions on Programming Languages and Systen**
**Publisher:** ACM
Full text available: Pdf (335.24 KB) Additional Information: full citation, abstract, re

**Bibliometrics**: Downloads (6 Weeks): 9, Downloads (12 Months): 112, Citation

In systems that support garbage collection, a tension exists between co frequently and not collecting it frequently enough. Garbage collection th

introduce unnecessary overheads at the risk of not collecting ...

**Keywords:** Garbage collection, Java, heap growth, implementation, me performance measurement, programming languages

**15** Bogor: an extensible and highly-modular software model checking fr
Robby, Matthew B. Dwyer, John Hatcliff
September 2003 **ESEC/ FSE-11:** Proceedings of the 9th European software jointly with 11th ACM SIGSOFT international symposium o engineering
**Publisher:** ACM
Full text available: Pdf (256.27 KB) Additional Information: full citation, abstract, re

**Bibliometrics**: Downloads (6 Weeks): 4, Downloads (12 Months): 58, Citation C

Model checking is emerging as a popular technology for reasoning abou wide variety of software artifacts including: requirements models, archit implementations, and process models. The complexity ...

**Keywords:** domain-specific, extensible, model checker, modular

Also published in:
September 2003 **SIGSOFT Software Engineering Notes** Volume 28 Issue 5

**16** Contention-aware scheduler: unlocking execution parallelism in mult
Feng Xian, Witawas Srisa-an, Hong Jiang
October 2008 **OOPSLA '08:** Proceedings of the 23rd ACM SIGPLAN confere programming systems languages and applications
**Publisher:** ACM
Full text available: Pdf (767.41 KB) Additional Information: full citation, abstract, re

**Bibliometrics**: Downloads (6 Weeks): 41, Downloads (12 Months): 200, Citatio

In multithreaded programming, locks are frequently used as a mechanis Because today's operating systems do not consider lock usage as a sche decisions can be unfavorable to multithreaded applications, ...

**Keywords:** java, operating systems, scheduling

Also published in:
October 2008 **SIGPLAN Notices** Volume 43 Issue 10

**17** High-level real-time programming in Java
David F. Bacon, Perry Cheng, David Grove, Michael Hind, V. T. Rajan, Eran Christoph M. Kirsch, Daniel Spoonhower, Martin T. Vechev
September 2005 **EMSOFT '05:** Proceedings of the 5th ACM international co software
**Publisher:** ACM
Full text available: Pdf (341.79 KB) Additional Information: full citation, abstract, re

**Bibliometrics**: Downloads (6 Weeks): 2, Downloads (12 Months): 40, Citation C

Real-time systems have reached a level of complexity beyond the scalir restricted languages traditionally used for real-time programming.While collection has made it practical to use Java to implement ...

**Keywords:** WCET, allocation, scheduling, tasks, visualization

**18** Parallel execution of test runs for database application systems
Florian Haftmann, Donald Kossmann, Eric Lo
August 2005 **VLDB '05:** Proceedings of the 31st international conference or
**Publisher:** VLDB Endowment
Full text available: Pdf (137.03 KB) Additional Information: full citation, abstract, re

**Bibliometrics**: Downloads (6 Weeks): 3, Downloads (12 Months): 36, Citation (

In a recent paper [8], it was shown how tests for database application s efficiently. The challenge was to control the state of the database during runs in such a way that expensive *reset* operations ...

**19** Optimistic parallelism requires abstractions
Milind Kulkarni, Keshav Pingali, Bruce Walter, Ganesh Ramanarayanan, Ka
June 2007 **PLDI '07:** Proceedings of the 2007 ACM SIGPLAN conference o design and implementation
**Publisher:** ACM
Full text available: Pdf (478.30 KB) Additional Information: full citation, abstract, re

**Bibliometrics**: Downloads (6 Weeks): 63, Downloads (12 Months): 310, Citatio

Irregular applications, which manipulate large, pointer-based data struc to parallelize manually. Automatic tools and techniques such as restruct speculative execution have failed to uncover ...

**Keywords:** abstractions, irregular programs, optimistic parallelism

Also published in:
June 2007 **SIGPLAN Notices** Volume 42 Issue 6

**20** Analytic modeling of multitier Internet applications
Bhuvan Urgaonkar, Giovanni Pacifici, Prashant Shenoy, Mike Spreitzer, Ass
May 2007 **Transactions on the Web (TWEB)** , Volume 1 Issue 1
**Publisher:** ACM
Full text available: Pdf (616.52 KB) Additional Information: full citation, abstract, re

**Bibliometrics**: Downloads (6 Weeks): 28, Downloads (12 Months): 318, Citatio

Since many Internet applications employ a multitier architecture, in this problem of analytically modeling the behavior of such applications. We network of queues where the queues represent different ...

**Keywords:** Internet service, analytical model, dynamic provisioning, hc analysis, performance prediction, policing, queuing theory, session, tier

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